

Las Vegas Fire & Rescue Fire Prevention Division Special Hazards Unit



PERMIT PACKAGE

Las Vegas Fire & Rescue, Fire Prevention Division is responsible for ensuring business owners follow safe storage, use, and handling procedures of all hazardous materials. With that comes identifying these chemicals and the possible permitting of them. It is the responsibility of ownership, or user to follow all Federal, State, and City requirements concerning the storage, use and handling of hazardous materials.

Hazardous Materials are those chemicals or substances which are *physical hazards* or *health hazard* as defined and classified in International Fire Code, 2012 chapter 50, whether the material are in a usable or waste condition.

In addition to the State of Nevada Fire Marshals' Office documentation requirements, the City of Las Vegas Fire & Rescue, Fire Prevention Division requires its' own Hazardous Materials permit application be filled out by the responsible party. Once the Fire Inspector issues the Hazardous Materials package and explains the process, the owner/operator will have a determined amount of time to fill this out and return to the inspector for review. If required, a permit will be issued and fees assessed which are then renewable on an annual basis.

COMPLETING THE HAZARDOUS MATERIALS INVENTORY STATEMENT

The Hazardous Material Inventory Statement (HMIS) documents the information at your facility required by Las Vegas Fire & Rescue for determining that the proper fire codes are being adhered to. Most of this information can be found on your Material Safety Data Sheets or from your supplier.

When completing the quantity field, state the largest amount of hazardous materials you might have, (worst case scenario).

BLOCK 1 – enter chemical/product or common name of the hazardous materials or mixture containing the hazardous materials.

BLOCK 2 – Enter hazard classification per IFC section 105, tables 105.6.8, 105.6.10, 105.6.20. See Attachment 1 for specific hazard classifications and their reportable amounts.

BLOCK 3 - Enter the hazardous materials physical state; solid, liquid, gas.

BLOCK 4 – Enter the percent concentration of the hazardous materials, such as hydrogen peroxide 3%. If none, then N/A.

BLOCK 5 – Enter the chemical abstract service (CAS) number of the hazardous materials. For mixtures, enter the CAS number distinct to the particular chemical. If none then N/A

BLOCK 6 – Enter the total quantity of that particular hazardous materials in the largest amounts you might store (Liquids in gallons, gasses in cubic feet, and solids in pounds). If in doubt, use table 105.6.20.

BLOCK 7 – Enter the appropriate NFPA 704 rating symbols.

Here you will find examples of some common items found in the workplace.

Chemical	Conc.%	CAS No.	Hazard Classification	Physical State	704 H	704 F	704 R
			Class 3 Oxidizer, Class 2 Unstable (Reactive);				
Calcium Hypochlorite	100	7778-54-3	Corrosive	Solid	3	0	2
Methyl Ethyl Ketone (MEK)	100	78-93-3	Flammable Liquid I-B; Irritant	Liquid	1	3	0
Methyl Ethyl Ketone Peroxide (MEKP)	60	1338-23-4	Comb IIIB, Org Per 3, Unstable 2, IRR	Liquid	2	2	2
Acetone	100	67-64-1	Flammable Liquid I-B; Irritant	Liquid	2	3	0
Acetylene	100	74-86-2	Flammable Combustible Gas	Comb Gas	0	4	2
Argon	100	7440-37-1	Non Hazardous	Gas	0	0	0
Carbon Dioxide, CO2	100	124-38-9	Non Hazardous	Gas	0	0	0
Chlorine	100	7782-50-5	Corrosive, Irritant, Oxidizer	Gas	3	0	0
Diesel # 2	Mixture	000-169-00-0	Combustible Liquid IIA, Irritant	Liquid	2	2	0
Ethylene Glycol	100	107-21-1	Combustible Liquid IIIB, Irritant	Liquid	3	1	0
Gasoline	100	8006-61-9	Flammable Liquid IB, Irr, Car	Liquid	4	3	0
Motor Oil	100	000009-00-0	Combustible Liquid IIIB, Irritant	Liquid	2	1	0
Hydrochloric Acid	15-37	7647-01-0	Corrosive	Liquid	3	0	0
Sulfuric Acid	12.7-50	7664-93-9	Water Reactive, Corrosive, Toxic	Liquid	3	0	1
Propane	100	74-98-6	Flammable Gas	Gas	0	4	0
Oxygen, compressed	100	7782-44-7	Oxidizer, Compressed Gas	Comb Gas	0	0	0
Oxygen, Liquefied	100	7782-44-7	Oxidizer, Cryogenic Fluid	Cryogen	3	0	0
Nitrogen	100	7727-37-9	Non Hazardous	Gas	0	0	0
Methane	100	74-82-8	Flammable Gas, Gaseous	Gas	0	4	0
Methanol	100	67-56-1	Flammable Liquid IB, Irritant	Liquid	2	3	0
Isopropyl Alcohol	100	67-63-0	Flammable Liquid IB, Irritant	Liquid	2	3	0
Anhydrous Ammonia	100	7664-41-7	Flammable Gas, Corrosive	Gas	3	4	0
Sodium Hydroxide, aqueous	2-50	1310-73-2	Corrosive	Liquid	3	0	0
Lead	99.9	7439-92-1	Carcinogenic	Solid	4	0	0
Perchloroethylene (PERC)	90-100	127-18-4	Toxic/Carcinogenic	Liquid	4	0	0

1. Business & Billing Information						
Business Name:						
Address:		Billing Contact:				
City:	State:	Billing Address:				
Zip Code:		City:	State:			
Business Telephone:		Zip Code:				
Business Owner:		Billing Telephone:				
Contact Number:		Fax number:				
	2. Em	ergency Contacts				
Primary Name:		24 hr. Contact No.				
Secondary Name:		24 hr. Contact No.				
Printed Name:						
Signature and Date:						

I declare that the information provided in the hazardous materials permit application and hazardous materials inventory statement is true and correct.

If you have any questions regarding this application, please contact your City of Las Vegas Fire Inspector for clarification or call the Fire Prevention Special Hazards Unit @ (702)-229-0366.

Hazardous Material Inventory Statement

Company:	Page:of
Address:	Date:

Block 1 Chemical or Product	Block 2 Hazard	Block 3 Physical	Physical Concentration CAS Number Storage Amounts		Block 7 NFPA 704 Rating				
Common Name	Classification	State	%		Inside	Outside	Н	F	R
					inside	Outside			

Hazardous Material Inventory Statement

Company:	Page:of
Address:	Date:

Block 1 Chemical or Product	Block 2 Hazard	Block 3 Physical	I Concentration CAS Number Storage Amounts NFP		Block 6 Storage Amounts		Block 7 PA 704 Ra		
Common Name	Classification	State	%		Inside	Outside	Н	F	R
					IIISIUE	Outside			
	_								
	_								

Las Vegas Fire & Rescue Hazardous Materials Inventory Threshold Quantities Attachment 1

2012 International Fire Code

A PERMIT IS REQUIRED FOR THE STORAGE OF ANY OF THE FOLLOWING MATERIALS, PER IFC 2012, section 105. Refer questions about this partial listing to your area Fire Inspector or the Las Vegas Fire & Rescue, Fire Prevention Division.

Permit Amounts for Hazardous Materials (Table 105.6.8, 105.6.10, 105.6.20)

TYPE OF MATERIAL	AMOUNT (more than)
Corrosive Liquids	55 gallons
Corrosive Solids	1000 pounds
Highly Toxic/Poison Liquids	Any amount
Highly Toxic/Poison Solids	Any amount
Toxic/Liquids	10 gallons
Toxic/Solids	100 pounds
Toxic/Gases	Section 105.6.8
Oxidizing Gases	504 cubic feet Sec 105.6.8
Oxidizing Liquids	
Class 4	Any amount
Class 3	1 gallon
Class 2	10 gallons
Class 1	55 gallons
Oxidizing Solids	
Class 4	Any amount
Class 3	10 pounds
Class 2	100 pounds
Class 1	500 pounds
Organic Peroxides	
Class 4	Any amount
Class 3	Any amount
Class 2	10 pounds
Class 1	20 pounds
Pyrophoric (gases, liquids, & solids)	Any amount
Unstable (reactive) Liquids	
Class 4	Any amount
Class 3	Any amount
Class 2	5 gallons
Class 1	10 gallons
Unstable (reactive) Solids	
Class 4	Any amount
Class 3	Any amount
Class 2	50 pounds
Class 1	100 pounds
Water-reactive Solids	
Class 3	Any amount
Class 2	50 pounds
Class 1	500 pounds
Water -reactive Liquids	
Class 3	Any amount
Class 2	5 gallons
Class 1	55 gallons

TYPE OF GAS	AMOUNT
Flammable (except cryogenic fluids & LPG)	200 Cubic feet
Oxidizing (includes oxygen)	504 Cubic feet
Corrosive (acids or caustics)	200 Cubic feet
Toxic or Highly Toxic	Any amount
Inert (pressure cylinder)	6000 Cubic feet
Pyrophoric	Any Amount
Toxic	Any Amount

Type of Cryogen (Liquid)	Inside	Outside
Flammable	Over 1 gallon	60 gallons
Oxidizer (Includes Oxygen)	Over 10 gallons	Over 50 gallons
Inert	60 Gallons	500 Gallons
Physical or Health hazard not indicated above	Any Amount	Any Amount

Flammable Liquids	Inside	Outside
Class 1	5 gallons	10 gallons
Combustible Liquids	Inside	Outside
Class 2/3A	25 gallons	60 gallons
Class 3B	13,200 gallons	Unlimited
Flammable Solids	100 pounds	100 pounds

Combustible Fibers	100 cubic feet
Explosives	Any amount
Liquid Propane	Any Amount

HAZARDOUS	MATERIALS	UNIFIED	PROGRAM

I.D. #			

EMPLOYEE TRAINING PROGRAM

A.	Describe the safety procedure training for all employees in the event of a release or threatened release of hazardous materials. This training shall include, but not be limited to, the following: new employee training, annual training, periodic refresher courses, and familiarization with Emergency Plans and Procedures of this Business Plan / Contingency Plan.
1.	Summarize specific job descriptions for all positions that work with or come in contact with hazardous materials / hazardous waste and indicate how these specific positions are trained for their job responsibilities or hazards of exposure (describe training program). Designate whether employee is working with hazardous material (HM), hazardous waste (HW), or both (B).
2.	Summarize training specific to emergency response personnel who deals with either hazardous material or hazardous waste release or threatened release.

3.	Indicate frequency and duration of training for each type of employee noted above (a table may be used).
4.	Indicate how your business facilitates employee access to training materials. (e.g. bulletin board, employee newsletter, staff meetings, etc.)
В.	List the personnel in charge of training and indicate qualifications of personnel conducting the training.
C.	Indicate where records are kept. Records must document training including training duration and completion dates, names and positions of employees receiving training, and the name(s) of instructors / trainer.

Form T -- Employee Training Program

- A. All of these elements must be reflected in your training plan. If you have an established training program, please summarize the following points on Form T. Send us a copy of the established program.
 - The training program for your employees must show how the specific positions and responsibilities of the employee(s) will relate to the type and degree of hazards, present or anticipated, as encountered by your business in its use, storage, or generation of hazardous materials or hazardous waste.
 - 2. At a minimum the training program must include the following information:
 - a. Safe handling of hazardous materials or waste including the physical hazard and health hazard associated with each hazardous material used, proper handling procedures, precautions, and personal protective equipment which must be worn or used. This can be achieved by introducing and explaining the Material Safety Data Sheets (MSDS).
 - b. Use of emergency response equipment and supplies under your company's control for spills, fire, disposal, and first aid.
 - c. The particular of your company's Emergency/Contingency Response Plan and its procedures.

At a minimum the training program must also be designed to ensure that your employees are trained to handle the various aspects of hazardous materials/wastes at your company's site. This means that employees handling hazardous materials/wastes and emergency response team members are able to coordinate and thereby respond effectively to emergencies. Your training program must assure that staff is familiar with emergency procedures, emergency equipment, and emergency systems. This includes where applicable:

- Procedures for using, inspecting, repairing, and replacing emergency and/or monitoring equipment;
- Communications and/or alarm systems;
- Response to fires or explosions:
- Response to groundwater contamination incidents;
- Shutdown of operations.
- 3. Employees must be trained initially, upon hiring or job assignment, and receive refresher courses annually thereafter. Employees requiring specialized training must receive such training within six months of their employment, assignment, or reassignment to hazardous waste handling or storage at the facility. Employees dealing with hazardous waste shall not work unsupervised until trained.
- 4. The access to and transfer of information process is to assure timely transfer of information to employees must be included in your training.
- B. List the personnel in charge of conducting general training and specific training. Provide the names and titles of the trainers or instructors. Summarize the experience and training that qualifies such persons to perform specific training.
- C. Maintained until closure of the business site or facility and shall be retained for former employees for at least three years from the last date of employment at the site or facility.

Please Note: Agricultural facilities -- The Pesticide Safety Training Record may be substituted for Form T providing that all hazardous material are listed, and the training includes the information listed under Section A-2 above.

HAZARDOUS MATERIALS PROGRAM

EMERGENCY RESPONSE PLAN

or Hazardous Waste Contingency Plan

I.D. #	

Las Vegas Fire & Rescue (Special Hazards Unit) Date:

SECTION I-A: BUSINESS IDENTIFICATION DATA			
	BUSINESS NAME		
SITE ADDRESS	CITY	ZIP CODE	
FACILITY UNIT		TELEPHONE NUMBER	
BUSINESS MAILING ADDRESS	CITY	ZIP CODE	
If your business has a license or permit from any	of the following agencies, please indicate the do	ocument number.	
Hazardous Materials Underground Storage #	3. Air Pollutior District		
2. Hazardous Waste Generator #	4. Responding & Permi		
required to notify these companies in the every reference and to assist emergency response part at your facility. List the name the service		aterials emergency	
Gas Service	Telephone #		
Sanitation District			
Water District	Telephone #		
SECTION I-B: OWNER CERTIF	ICATION OF DATA (Certify eit	her 1 or 2)	
familiar with the operation of the plan. (If you check eith	Plan. I have personally examined the informer of the above two options, continue to cesponse / Contingency Plan).		
 This plan requires no change and is on file winot need any change. (If you check this section.) 			
I certify under penalty of law th	at the above information is true and accur	ate.	
PRINT NAME OF OWNER OR OPERATOR	SIGNATURE	DATE	
DOCUMENTS PREPARED BY	SIGNATURE	DATE	

SECTION II: EMERGENCY RESPONSE PLANS AND PROCEDURES

Note: Complete all sections of this Emergency Response Procedure below. Use of terms such as "N/A" (Not Applicable) will not be accepted.

- A. FIRE, SPILL OR RELEASE: The Fire Code requires immediate notification through dialing 911, by whoever first sights the incident. In the event of release or spill of hazardous materials, you must also notify:
 - 1. Las Vegas Fire & Rescue Special Hazards Unit (SHU) at (702) 229-0366. After business hours -- dial 9-1-1. CAER Spill Report forms can be faxed to (702) 229-0124.
 - 2. The Nevada State Department of Environmental Protection -- (888) 331-6337 or (775) 687-9485.

List the individuals responsible for verifying that these calls have been made and also indicate their position in your company.

FOR VERIFYING THE DIALING OF 911:

		NAME		POSITION	
	Individual responsib	le for calling Las Vegas Fire & Coordin	& Rescue SHU and the New lator of your business.)	ada DEP: (Normal	ly the Emergency
		NAME		POSITION	
В.	List the local emerge	ncy medical facilities that will by a release or thre	be used by your business in atened release of hazardou		ccident or injury caused
	NAME	ADDRESS	Cl	TY	PHONE
	NAME	ADDRESS	Cl	ТҮ	PHONE
	List the Emergency C	oordinator(s) at your facility.			
	NAME	TITLE	BUSINESS PHONE	24 HR PHONE	PAGER #
Sed	condary:				
	NAME	TITLE	BUSINESS PHONE	24 HR PHONE	PAGER #
D.		nave an on-site emergency re to notify your on-site emerge h			escribe procedures your threatened release of

E.	facilities (schools, hospital	is and rest homes) with businesses; for apartn	sinesses and residences, schools, hospitals, etc. Include sensitive ithin 1,000 feet (straight line distance from your property line). nent buildings, list manager's phone. Do not list telephone numbers private residences.
F			onse procedures must	es in the event of a release or threatened release of hazardous comply with all Federal, State and local regulations. (Use additional v. Use our format if computerized.)
1.	What actio and co	ons would your bus ontainment proced on material storag	siness take to reduce a ures. <i>Please Note: Int</i> <i>e, dispensing, use an</i>	tials associated with the hazardous materials present at your facility. accident / release potentials? Include description of safety, storage ternational Fire Code (2012), section 5003.9.2 requires that and handling areas shall be secured against unauthorized entry canner approved by the fire code official.
	2. Equipmo			oment at your facility (e.g. fire extinguishing systems, spill control nt). Include summary of maintenance procedures .
	Item	Use	Location	Maintenance Procedure
3.	Evacuation	ı Describe how y		otify and evacuate your facility. What communications or alarms are operate these during power failure?

4.	Shutdown Describe the shutdown for each site or facility.
5a.	Response Describe what is done to lessen or mitigate the harm or damage to person(s), property, or the environment, and prevent the event from getting worse or spreading. What is your immediate response to:
	Fire:
	Familiaris :
	Explosion:
	Spill:
	<u> </u>
	Severe Ground Motion:
	Major Power Failure:
	Florally.
	Flood:
b. c.	Is this facility located on a 100 year flood plain? Yes No Ground Motion Identify facility areas and list mechanical or other systems that require immediate inspection or isolation because of their vulnerability to earthquake related ground motion.
6.	 Clean-Up (Remove the Hazard) How do you handle the complete process of cleaning up, and disposing of related materials at your facility? Note: Notify the Special Hazards Unit when clean-up is complete.
G.	Location Your business is required to keep a copy of the Business Plan and related MSDS sheets on-site. Describe where this information is located.

HAZARDOUS MATERIALS EMERGENCY RESPONSE PLAN or Hazardous Waste Contingency Plan

Section I-A: Business Identification Data

You will note that the form asks for both "Site Address" and "Facility Unit". Some businesses are large enough to have several facilities on one site. In your plan preparation, you may be able to design a "generic" plan, but for certain facilities you may also need to develop a more specific subplan. Therefore, you might, as an example, indicate in the block designated "Facility Unit" -- Applicable for all facilities except LAB A and Water Treatment Plant. (Separate plans for Lab A and Water Treatment Plant would be necessary.)

Section 1-B: Owner Certification of Data

This section contains certifications relating to the accuracy of the Form E plans. Check appropriate box and sign certification. If you are submitting a new plan or making substantive changes to an existing Emergency Response Plan, please check the appropriate box and complete Section II. If your existing Emergency Response Plan is already on file with the Las Vegas Fire & Rescue and the Plan does not need any change, certify as such and then proceed to Employee Training Program -- Form T.

Section II: Emergency Response Plans and Procedures

- A. Reporting requirements for release, spill, or fire (requirements as stated). "Release" means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, unless permitted or authorized by a regulatory agency. Please include both the name(s) and company position(s) for individual(s) responsible for verifying calls to: 911, Las Vegas Fire & Rescue, Special Hazards Unit, and the State Department of Environmental Protection.
- B. Local emergency medical facility information is for your reference in the event of an emergency.
- C. An Emergency Coordinator must be appointed and be responsible for managing hazardous material emergencies, coordinating all emergency response measures, and must be thoroughly familiar with the site and facility emergency response plan, the site or facility's operations, its hazardous materials, and its layout. Other tasks of the Emergency Coordinator may include: writing the emergency response plan, updating it when necessary, and training personnel in its use. This information must be kept up-to-date.
- D. Indicate whether or not your business has an on-site emergency response team for responding to hazardous materials emergencies. Describe the procedures used to notify the members of this team in the event of an emergency.
- E. List the neighboring properties and include sensitive facilities such as hospitals, schools, and rest homes that are within 1,000 feet of your business property. Include the compass direction from your facility -- North, South, East and West.

- F. Briefly describe your standard operating procedures in the event of a release or threatened release of hazardous materials.
 - Describe the prevention actions and accident potential risk reduction procedures to be taken by your business to reduce and prevent hazardous material emergencies from occurring.
 - 2. List the available equipment at your facility, e.g., fire extinguishing systems, spill control equipment, decontamination equipment, etc. Specify equipment use, location and maintenance requirements.
 - 3. Enter the description of your evacuation procedures to immediately notify and evacuate employees and/or customers. It is also important to specify emergency exits, alternatives, and staging areas.
 - 4. Describe the specific shutdown procedures where applicable. For example:
 - a. If a hazardous material release occurs, how do you shut off the source of the release, consistent with common sense and safety?
 - b. Indicate the posting location of emergency shutdown procedures. These should be posted in a conspicuous location wherever hazardous materials are present.
 - c. For flammable materials, how do you eliminate all ignition sources, shut off the electricity, gas, and motorized equipment?

5. Response

- a. Describe the actions taken to reduce or stop any harm or damage resulting from the release. Example: If the release is in the form of a spill, and it is safe to handle, indicate how the spill would be directed to a safe location through diking with inert (chemically nonreactive) materials such as dry sand, dirt, or kitty litter. Directions on how you will handle different types of spills (e.g., use of absorbent, shoveling dry material, or by referring to the Material Safety Data Sheet) should be outlined.
- Indicate whether your facility is located in a 100 year flood plain.
 Indicate how you will protect hazardous materials in the event of a flood.
- c. Also, identify areas of the site/facility and mechanical or other systems that require immediate isolation, inspection, or shutdown in the event of an earthquake or severe ground motion.
- 6. Describe the procedures your personnel will follow to remove and clean-up a hazardous materials spill/release. Detail the steps to be taken for clean-up, disposal, documentation, following the release of hazardous materials.
- G. Describe the specific location at your site where this Business Plan will be found.

Las Vegas Fire & Rescue - Fire Prevention Hazardous Materials Unit

Facility Site Map

A B C D E F G H I J K L M N 1 2 3 4 5 6 7 8 9	
2 3 4 5 6 7 8 9	
3 4 5 6 7 8 9	1
3 4 5 6 7 8 9	
4 5 6 7 8 9	2
4 5 6 7 8 9	
5 6 7 8	3
5 6 7 8	
6 7 8 9	4
6 7 8 9	
7 8 9	5
7 8 9	
9	6
9	7
9	7
9	8
	-
	9
10	10
11	11
12	12
13	13
14	14
A B C D E F G H I J K L M N Draw to approximate scale or proportion	

OUTSIDE PLACARD

INSIDE PLACARD

Business Name:	Date:	
Address:		
Number of Employees in Facility Depicted Above - Day = Night =	Page	of

MAP GRID

A. **GENERAL SITE MAP LAYOUT** -- Please use 8 1/2" x 11" size paper only. For large sites, consider using a general layout on one page followed by other 8 1/2" x 11" pages showing quadrant enlargements. Please Note: If your business site is in a remote area, you will need to include a diagram that can be used to provide directions to the site. A copy of a road map will suffice provided it is no larger than 8 1/2" x 11".

General Site Maps must include:

- 1. Outline of buildings, facilities and areas within the property to approximate scale.
- 2. Site orientation (North arrow).
- Loading areas.
- 4. Parking lots.
- Internal roads.
- 6. Storm and sewer drains.
- 7. Designation of adjacent property use, such as commercial, vacant, residential, school, etc.
- 8. Locations and names of adjacent streets, alleys, or access.
- 9. Access and egress points; evacuation routes, emergency exits, and staging areas.
- 10. Location of nearest fire hydrant.
- B. <u>INDIVIDUAL FACILITY / BUILDING / AREA MAPS</u> -- the General Site Map, especially for a larger business, may depict separate buildings, facilities, or areas that are part of the property. In some cases not all of these buildings/ facilities, or areas will be dedicated to storage or use of hazardous materials. But for those that are engaged in storage and/or use, you will need to draw a map.

Again, use only 8 1/2" x 11" size paper. Use symbols but not colors to differentiate items. Map symbols are available on the Fire Department website at www.lasvegasnevada.gov/Government/fire.htm. Colors do not copy well. Please Note: If you submit a site map in color, please include five (5) copies, as this department does not have a color copier.

The Individual Facility / Building / Area Maps must be approximate scale and:

- 1. Show, for multi-story buildings, a floor diagram for each floor.
- Show the location of each hazardous material use or storage area and identify types of materials stored or used in that area.
- 3. Show type of storage -- including above ground, below ground, and partially buried storage tanks, pallets, cylinders, pipelines, rail cars, truck trailers, etc.
- 4. Show location of emergency notification systems and also emergency shutdown systems. The map must also show emergency response equipment, such as fire extinguishers and other equipment for fire suppression, materials for mitigation and clean-up of hazardous spills, breathing apparatus, protective clothing, first-aid equipment, and medical supplies.
- 5. Show evacuation routes, emergency exits, alternative escape routes, and personnel staging areas. Also give us an idea of the number of personnel that might be in the facility at any one time.
- 6. Show where Business Plan data is stored, including the Emergency Response and Hazardous Waste Contingency Plans, as well as the Materials Safety Data Sheets.
- C. Please Note: Since there are many CAD programs now available, we will accept a map with a two-way grid, facility name, facility address, date, page numbers, and the above mentioned items.

HAZARDOUS MATERIALS SITE MAP SYMBOLS

Additional Symbols can be found within NFPA Standard 170 – Fire Safety & Emergency Symbols

Υ	Fire Department Connection	HYAC	Fire Safety & Emergency Symbols Heating, Ventilation & Air Conditioning Shut-Off	û N	North Symbol
+	Outside Screw & Yoke; Rising Stem (OS&V Valve)	Œ	Electrical Shut-Off	E	Elevator
t	Post Indicator Valve	(G)	Gas Shut-Off	E-eq	Elevator Equipment Room
0	Fire Hydrant	\mathbf{w}	Water Shut-Off	AΑ	Attic Access
•=	Fire Pump	€SD	Emergency Shut Down	R/A	Roof Access
€X	Fire Extinguisher		Drain	1 4	Stairways: Indicate highest to lowest
(FH)	Fire Hose	*	Evacuation / Staging Area	T	Trash / Refuse Storage
\otimes	Risers for Sprinklers	E - ·-▶	Evacuation Route	Ogden Av	Streets, Alleys, Roads Indicated By Name
A	Fire Alarm Annunciator Panel	ÔÔ	Compressed Gas Cylinders		Power Lines
(AP)	Fire Alarm Reset		Hazardous Materials Drums	SPLL CONTROL	Spill Control Equipment
HD	Heat Detector	HMS	Hazardous Material Storage	KEY	Fire Department Key Box
©D	Combustible Gas Detector	HWH	Hazardous Waste Handling	Mene	Manufacturer Safety Data Sheets
(SD)	Smoke Detector	HWS	Hazardous Waste Storage	INFO	Emergency Information, Business Plan, and Maps
Œ	Toxic Gas Detector	IHMS	Inside OHMS Outside	(AS)	Automatic Sprinkler
	PLEASE INCLUDE	PRODUCT NAM	IE, QUANTITY AND APPROPRIATE HAZA FOR EACH STORAGE TANK.	RD CLASS DIAMO	ND
(PT)	Pressurized Tank	()	Underground Tank	₩T	Water Tank
		(_)	Underground Tank in Vault		
HAZARDOUS CLASS DIAMONDS – USE TO DEPICT AREA HAZARDS					
€ OR	Corrosive	€RY	Cryogenic	EXP	Explosive / Blasting Agent
FLA	Flammable / Combustible	FLS	Flammable Solid	⟨INT⟩	Inert
⊘ R G >	Organic Peroxide	⊘H	Other Health Hazard	⊘ XY	Oxidizer
PYR	Pyrophoric	RAD	Radiological	TOX	Toxic / Highly Toxic
URM	Unstable Reactive	₩RM	Water Reactive		